

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P753797

Luminaire Tested: LD4D80BD010-EU4DR3070959030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR3070959030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6629.6 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

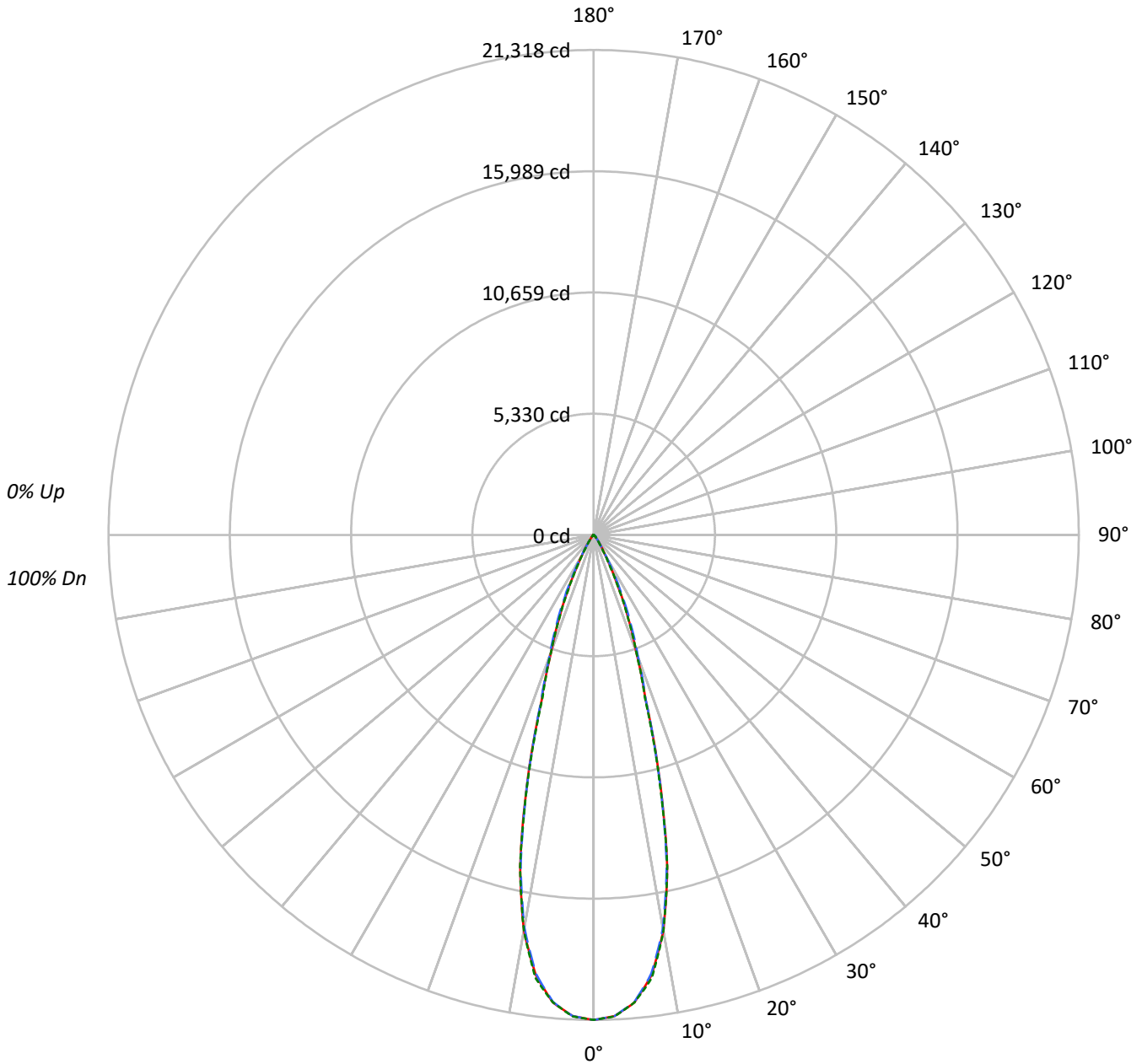


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1631721	1631721	1631721
5°	1584876	1583025	1584961
10°	1372742	1363065	1372415
15°	895650	890840	886355
20°	445359	462074	444765
25°	224341	252980	219747
30°	89825	97868	78256
35°	41666	39900	33443
40°	17986	19974	16946
45°	12687	15750	12806
50°	4358	11467	4608
55°	2509	4751	2656
60°	1760	2082	1760
65°	1141	1141	1141
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15750 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1874.6	28.3
10°-20°	3019.0	45.5
20°-30°	1304.6	19.7
30°-40°	297.3	4.5
40°-50°	102.1	1.5
50°-60°	24.9	0.4
60°-70°	6.5	0.1
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6198.1	93.5
0°-40°	6495.5	98.0
0°-60°	6622.5	99.9
0°-90°	6629.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6629.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21318	21318	21318	21318	21318	
5°	20627	20607	20603	20646	20628	1876
15°	11302	11166	11242	11205	11185	3026
25°	2656	2757	2995	2687	2602	1271
35°	446	455	427	424	358	302
45°	117	146	146	146	118	83
55°	19	20	36	21	20	18
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21317.6	21317.6	21317.6	21317.6	21317.6
2.5°	21176.3	21161.6	21170.0	21180.5	21184.7
5°	20626.8	20606.9	20602.7	20645.6	20627.9
7.5°	19518.4	19490.2	19447.3	19544.6	19635.7
10°	17661.7	17630.3	17537.2	17583.2	17657.5
12.5°	14920.6	14819.1	14817.0	14963.5	14943.7
15°	11302.5	11166.4	11241.8	11205.1	11185.2
17.5°	7600.6	7548.2	7648.7	7618.4	7487.5
20°	5467.5	5481.2	5672.7	5576.4	5460.2
22.5°	3989.7	4038.9	4266.0	4018.0	3926.9
25°	2656.3	2756.8	2995.4	2686.7	2601.9
27.5°	1633.8	1679.8	1921.6	1612.8	1566.8
30°	1016.3	993.2	1107.3	950.3	885.4
32.5°	666.7	637.4	674.0	604.9	552.6
35°	445.9	455.3	427.0	423.9	357.9
37.5°	278.4	320.3	282.6	301.4	230.3
40°	180.0	232.3	199.9	220.8	169.6
42.5°	147.6	179.0	164.3	174.8	150.7
45°	117.2	145.5	145.5	145.5	118.3
47.5°	64.9	97.3	124.5	99.4	69.1
50°	36.6	49.2	96.3	51.3	38.7
52.5°	25.1	28.3	65.9	29.3	26.2
55°	18.8	19.9	35.6	20.9	19.9
57.5°	14.7	15.7	18.8	15.7	14.7
60°	11.5	11.5	13.6	12.6	11.5
62.5°	8.4	8.4	9.4	8.4	8.4
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.1	4.2	4.2	4.2	4.2
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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